

SSP4-6A-170

Dual Circuit Series Surge Protector 6A

The Novaris SSP4-6A is a dual circuit surge protection device designed to protect AC and DC signalling paired circuits or power supplies. The SSP4-6A has zero earth leakage current on both circuits, full isolation between the two circuit pairs and will prevent the tripping of supply fuses down to 2A should a transient overvoltage occur.

Failsafe Design

In the event of an excessive common mode surge, a fuse will rupture isolating the earth connection thereby preventing a short circuit to earth. This is critical for applications like railway signalling.

Indicating Fuse

Should the earth fuse rupture a red indicating flag will pop up on the top cassette, indicating the cassette needs to be replaced.

DIN compliant

The SSP4-6A is DIN rail mountable and is locked onto the DIN rail when the earth lug screw is tightened.

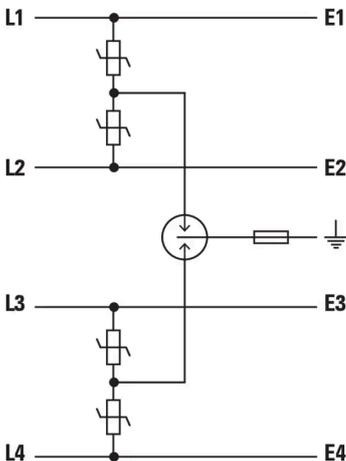
Pluggable Design

The pluggable top cassette design allows for easy removal and replacement without the need to disconnect any wiring.

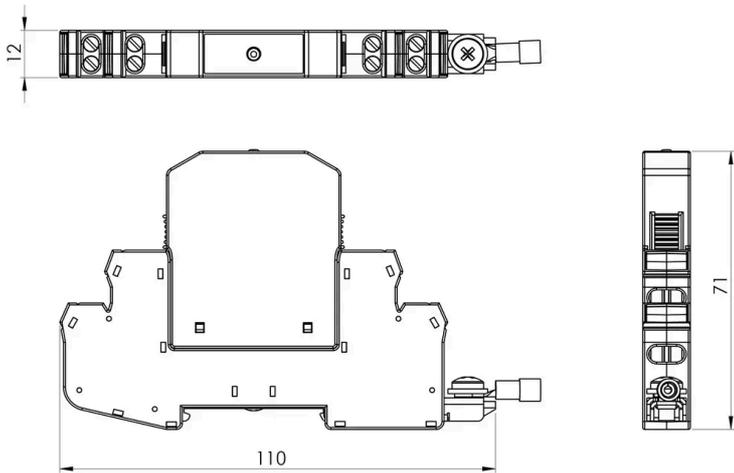


Image for illustrative purposes only

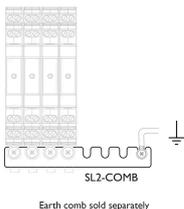
Wiring



Dimensions

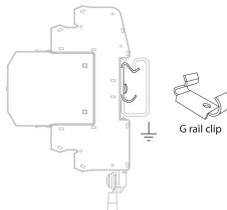


Earth Comb Option



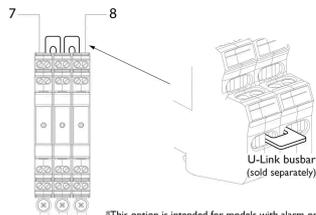
Earth comb sold separately

G Rail Mounting Clip Option (-G)



G rail clip

Alarm Busbar Link



*This option is intended for models with alarm only.



Product Datasheet

Electrical Specifications

Connection type		Series
Number of lines		2 pair
Modes of protection		Transverse and Common
Maximum continuous voltage (DC)	U_c	170V
Maximum continuous voltage (AC)	U_c	150V
Maximum discharge current (8/20 μ s)	I_{max}	5kA
Maximum common mode discharge current (8/20 μ s)		10kA
Impulse durability C2 10x8/20 μ s		5kA
Maximum load current	I_L	6A
AC durability 5x1s		1A rms
Overstressed fault mode		Mode 3
Response time	t_A	<25ns
Line resistance		0.02 Ω
Insertion loss @ 150 Ω		<0.5dB @ <20kHz
3 dB Frequency @ 150 Ω		80kHz
Earthing		Direct

Electrical (L-L) Specifications

Voltage protection level @ 1 kV/ μ s	U_p	290V
Capacitance	\pm	12nF

Electrical (L-PE) Specifications

Voltage protection level @ 1 kV/ μ s	U_p	380V
Voltage protection level @ 3 kA 8/20 μ s	U_p	620V
Capacitance	\pm	1.5pF

Mechanical Specifications

Minimum operating temperature		-40°C
Maximum operating temperature		70°C
Minimum operating humidity		5%
Maximum operating humidity		95%
Mounting method		TS35 DIN Rail
Environmental rating		IP20
Enclosure material		Polycarbonate
Enclosure finish		Black
Terminal type		Screw cage
Terminal capacity		2.5mm ²
Terminal screw torque		0.5Nm
Length		110mm
Width		12mm
Height		71mm
Dimensional tolerance		0.5mm

Standard Specifications

IEC 61643-21	SPD connected to telecommunications and signalling networks - Cat C2
AS 1768	Signalling/Telecommunications surge protection
UL 1449 & UL 497B	Protectors for data, communications and fire-alarm circuits
ITU-T K.44	Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents
AS/CA S008	Requirements for Customer Cabling Products
AS/NZS 4117	Surge Protective Devices for Telecommunications Applications

Shipping Specifications

Weight		70g
Customs tariff		85363000, 85363010

Other Specifications

Product Code		SSP4-6A-170
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